?s an,pn=jp 4032281
0 AN=JP 4032281
3 PN=JP 4032281
S3 3 AN,PN=JP 4032281
?t s3/5/all

3/5/1 (Item 1 from file: 351)
DIALOG(R)File 351:Derwent WPI

009017162 **Image available**
WPI Acc No: 1992-144500/*199218*
XRPX Acc No: N92-108018
Microwave-excited gas laser - has reflecting mirrors facing respectively to ends of laser tube formed by ridge waveguide NoAbstract Dwg 6/13
Patent Assignee: TOSHIBA KK (TOKE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 4032281	A	19920204	JP 90137218	A	19900529	199218	B

Priority Applications (No Type Date): JP 90137218 A 19900529
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 4032281	A		9		

Title Terms: MICROWAVE; EXCITATION; GAS; LASER; REFLECT; MIRROR; FACE; RESPECTIVE; END; LASER; TUBE; FORMING; RIDGE; WAVEGUIDE; NOABSTRACT
Derwent Class: V08
International Patent Class (Additional): H01S-003/09
File Segment: EPI

3/5/2 (Item 1 from file: 345)
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat

10354494
Basic Patent (No,Kind,Date): JP 4032281 A2 920204 <No. of Patents: 001>

PATENT FAMILY:
JAPAN (JP)
Patent (No,Kind,Date): JP 4032281 A2 920204
MICROWAVE EXCITED GAS LASER APPARATUS (English)
Patent Assignee: TOKYO SHIBAURA ELECTRIC CO
Author (Inventor): NODA ETSUO; OGASAWARA MUNEHIRO; HAYASHI KENICHI; SUZUKI SETSUO; MORIMIYA OSAMU
Priority (No,Kind,Date): JP 90137218 A 900529
Applic (No,Kind,Date): JP 90137218 A 900529
IPC: * H01S-003/09; H01S-003/03; H01S-003/097
CA Abstract No: ; 117(04)036185N
Derwent WPI Acc No: ; G 92-144500
JAPIO Reference No: ; 160204E000013
Language of Document: Japanese

3/5/3 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

03667181 **Image available**
MICROWAVE EXCITED GAS LASER APPARATUS

PUB. NO.: 04-032281 [*JP 4032281* A]
PUBLISHED: February 04, 1992 (19920204)
INVENTOR(s): NODA ETSUO
OGASAWARA MUNEHIRO
HAYASHI KENICHI
SUZUKI SETSUO

MORIMIYA OSAMU
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 02-137218 [JP 90137218]
FILED: May 29, 1990 (19900529)
INTL CLASS: [5] H01S-003/09; H01S-003/03; H01S-003/097
JAPIO CLASS: 42.2 (ELECTRONICS -- Solid State Components); 42.3 (ELECTRONICS -- Electron Tubes)
JAPIO KEYWORD: R002 (LASERS)
JOURNAL: Section: E, Section No. 1202, Vol. 16, No. 204, Pg. 13, May 15, 1992 (19920515)

ABSTRACT

PURPOSE: To make it possible to achieve high repetition operation, long service life and to operate with a large output and by providing a pair of conductor lids which are installed in the openings of both ends of a laser tube, each of which lids has a hole for permitting only a light beam in a state in which microwaves are blocked from passing; and a pair of mirrors which are disposed outside the openings of both ends of the laser tube and which constitute a resonator.

CONSTITUTION: A microwave excited gas laser apparatus comprises a laser tube 2 placed inside a container 1; an output mirror 3 and a total-reflection mirror both which are disposed outside the openings of both ends of the laser tube and which constitutes a resonator; a magnetron 5, disposed outside the container 1, which magnetron is employed as a source for generating microwaves; a waveguide 6 which goes through the container 1 airtight, disposed to guide microwaves generated by this magnetron to the laser tube 2; an air blower for making the laser gas sealed inside the container 1 to be forcedly circulated in the direction, indicated by thick arrows 7, in which this laser gas intersects the laser tube 2.